



AVOX Systems

AVOX Systems Inc. (Formerly Scott Aviation, Inc.)
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New website address: www.avoxsys.com

SERVICE INFORMATION LETTER



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OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

P/N 27660 SERIES – REGULATOR ASSEMBLY

SCOTT AVIATION RECOMMENDS FOR AN OVERHAUL:

- OVERHAUL PERIOD,
- MINIMUM NECESSARY PARTS TO REPLACE,
- KITS OF MINIMUM NECESSARY PARTS TO REPLACE, AND
- NECESSARY FUNCTIONAL TESTS AFTER AN OVERHAUL

1. BACKGROUND

This SIL recommends the overhaul period for the 27660 Series Regulator Assembly. This SIL identifies the minimum parts to replace during an overhaul. This SIL includes facts about kits that contain all of the minimum necessary parts to be replaced in an overhaul. This SIL gives information about functional testing required after an overhaul. This SIL revises certain Disassembly and Assembly procedures in the Component Maintenance Manual (CMM). This SIL does not change any other procedures in the CMM.

You are given authority to make copies of this SIL and give them to other persons. If you make a copy of this SIL, you must make a copy of all of the SIL.

2. EFFECTIVITY

A. Aircraft

Any aircraft that uses the Scott 27660 Series Regulator Assembly.

B. Regulator Assembly

Any 27660 Series Regulator Assembly.

C. Component Maintenance Manual

Scott CMM 35-11-26 (Revision 11 dated May 1/94) is necessary to do an overhaul. After the CMM is revised to incorporate this SIL, this SIL will not be applicable to the CMM. See Section 7 of this SIL on how to contact Scott Aviation for revision status of technical publications.



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3. SCOTT AVIATION RECOMMENDS FOR AN OVERHAUL:

A. Overhaul Period

- (1) Do an overhaul every five years or more frequently for all 27660 Series Regulator Assemblies.

B. Minimum Necessary Parts to Replace for an Overhaul

- (1) Overhaul Kit P/N 806007-01 contains the minimum necessary parts to replace for an overhaul of the 27660 Series Regulator Assembly with exceptions noted on Table 2. You must replace other parts if they are defective.

C. Functional Tests that are Necessary After an Overhaul

You must do all the functional tests in the CMM after you do an overhaul on the 27660 Series Regulator Assembly. You must follow all applicable procedures in the CMM and this SIL when you do an overhaul. This SIL does not change the test procedures in the CMM.

4. ACCOMPLISHMENT INSTRUCTIONS

An overhaul must be done by personnel knowledgeable in the repair of high-pressure aviation oxygen equipment. An overhaul must be done in a facility that is approved for the repair of high-pressure aviation oxygen equipment. Contact Scott Aviation for locations of repair facilities authorized to repair Scott oxygen equipment. See Section 7 of this SIL for contact instructions.

You must use all the necessary special tools and test equipment recommended in the CMM. Equivalent special tools and test equipment may be substituted. All tools and test equipment used to repair high-pressure aviation oxygen equipment must be calibrated. You must do the calibrations how and when your applicable national standards organization recommends. You must use tools that are clean for oxygen use.

A. Use the CMM and this SIL to do an overhaul of the regulator assembly.

B. Write in your aircraft logs that an overhaul was done on the regulator assembly.



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TABLE 2
PARTS CONTAINED IN
OVERHAUL KIT P/N 806007-01
FOR THE 27660 SERIES REGULATOR ASSEMBLY
(Refer to Notes 1 thru 5)

KIT ITEM NUMBER	PART NUMBER	NOMENCLATURE	QUANTITY PER KIT
1	10267-03	SEAT, VALVE	1
2	10286-00	GASKET, PIVOT PIN	1
3	10398-00	FILTER, INLET	1
4	27665-00	PLATE, IDENTIFICATION	1
5	800658-00	DIAPHRAGM	1
6	18091-00	PACKING, PREFORMED (See Note 5)	1
7	55619-00	PACKING, PREFORMED (See Note 4)	2
8	57666-00	RING, BACK-UP (See Note 4)	1
9	23203-03	ASSEMBLY, POPPET	1
10	58923-00	SCREW, ADJUSTING	1

Note 1: The overhaul kit contains the minimum necessary parts to replace in an overhaul of one 27660 Series Regulator Assembly except for Poppet Assembly P/N 23203-05 and Adjusting Screw P/N 59278-00 [parts of relief valve (270A, IPL Figure 1, CMM 35-11-26)]. See Note 2 and Note 3. Not all parts provided in the overhaul kit are required for the overhaul of some regulator assemblies. See Note 4. Discard any unused parts. See Section 7 of this SIL for instructions to buy an overhaul kit.

Note 2: Poppet Assembly P/N 23203-05 must also be replaced in an overhaul of regulator assembly P/N's 27660-17, -23. See section 7 of this SIL for instructions to buy Poppet Assembly P/N 23203-05.

Note 3: Adjusting Screw P/N 59278-00 must also be replaced in an overhaul of regulator assembly P/N's 27660-11, -17, -23. See section 7 of this SIL for instructions to buy Adjusting Screw P/N 59278-00.

Note 4: Preformed Packing P/N 55619-00 replaces P/N 3-5COMPV747-75 (155, 250, IPL Figure 1, CMM 35-11-26. Back-up Ring P/N 57666-00 replaces P/N MS9058-05 (150, IPL Figure 1, CMM 35-11-26).

Preformed Packing P/N 55619-00 and Back-Up Ring P/N 57666-00 are required when overhauling regulator assemblies 27660-05, -06, -17, -19, and -21 only.

Note 5: Preformed Packing P/N 18091-00 replaces P/N MS9385-03 (265, IPL Figure 1, CMM 35-11-26).



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5. DISASSEMBLY

NOTE: If removed, discard the following items (Refer to IPL Figure 1 of CMM 35-11-26, except as noted): valve seat (175); pivot pin gasket (190); inlet filter (160), identification plate (60), diaphragm assembly (125), preformed packing (155, 250, 265); back-up ring (150); adjusting screw (65); and poppet assembly [(P/N 23203-03 or P/N 23203-05) part of relief valve (270, 270A)].

A. Add Paragraphs 3.T. to page 303/304 of CMM 35-11-26. (Refer to IPL Fig. 1 and Fig. 1 of this SIL.)

- (1) Remove cap (P/N 5086), poppet assembly (P/N 23203-03 or P/N 23203-05), spring (P/N 10006654 or P/N 10004821) and adjusting screw (P/N 10004822) from relief valve (270, 270A). Discard poppet assembly (P/N 23203-03 or P/N 23203-05).

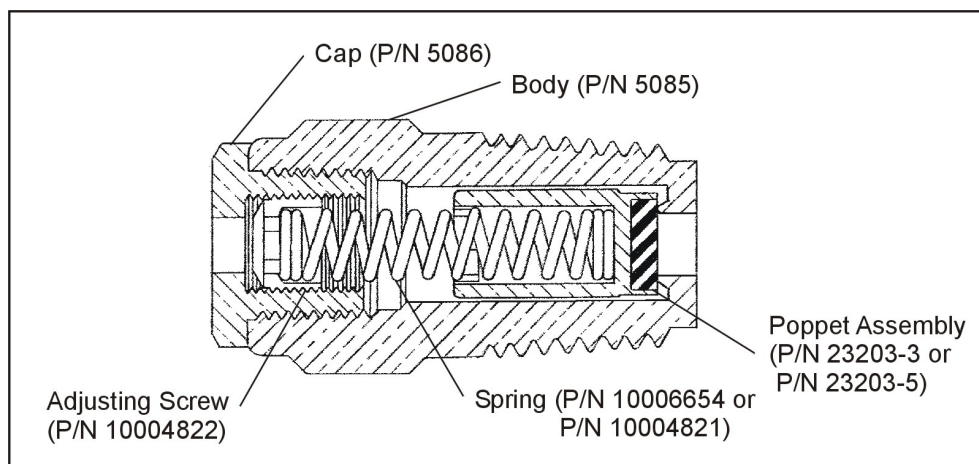
6. ASSEMBLY

A. The following supersedes paragraph 5.A., page 703, CMM 35-11-26. (Refer to IPL Fig. 1 and Fig. 1.)

- (1) Sparingly lubricate seat of poppet with oxygen compatible lubricant.
- (2) Assemble to body (P/N 5085) poppet (P/N 23203-03 for relief valve (270) or poppet (P/N 23203-05) for relief valve (270A).
- (3) Assemble to body (P/N 5085) spring (P/N 10006654) for relief valve (270) or spring (P/N 10004821) for relief valve (270A).
- (4) Assemble adjusting screw (P/N 10004822) into cap (P/N 5086).

NOTE: Turn adjusting screw into the cap so the bottom of the adjusting screw is flush with the bottom of the cap. Then back the adjusting screw out (away from the seat 4.5 turns for relief valve (270) or 3.25 turns for relief valve (270A).

- (5) Thread cap assembly (P/N 5086) onto body (P/N 5085).
- (6) Wrap 1-1/2 turns of thread sealing tape to valve (270 or 270A) in the direction of the thread spiral, beginning with the first thread. In no case shall the tape extend beyond the first thread. Trim off excess tape. Install valve in body assembly (275 or 280); torque valve to 30-40 in•lbs (3.4 -4.5 N•m) force.
- (7) Lockwire cap (P/N 5086) to body (P/N 5085) per MS33540.



P/N 5081-07, -09 Relief Valve
Figure 1



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7. TO CONTACT SCOTT AVIATION:

- A. To get an overhaul of a 27660 Series Regulator Assembly or to have it repaired, contact any Scott Authorized Repair and Overhaul Facility. Refer to the Scott web site (www.scottaviation.com) for a list of authorized facilities.
- B. To buy kits or parts, contact any Scott Authorized Distributor. Refer to the Scott web site (www.scottaviation.com) for a list of distributors.
- C. To get technical aid, contact the Scott Technical Support Department.
 - Telephone: 1-716-683-5100
 - Fax: 1-716-681-1089
 - E-Mail: sa-customerservice@tycoint.com
- D. To get a copy of the CMM or the revision status of a publication, contact the Scott Technical Publications Department. Give the aircraft model when you send an order for a CMM copy.
 - Telephone: 1-716-683-5100
 - Fax: 1-716-681-1089
 - E-Mail: techpubs@tycoint.com
 - Publications Index: log onto www.scottaviation.com; click on Aviation/Government Products, click on Aviation Product Information, click on Technical Product Information

Note: The steps to get the Publications Index from the Scott Aviation web site can and will change in the future because of changes to the web site.

New Contact Information (September 1, 2004):

AVOX Systems Inc. (Formerly Scott Aviation, Inc.)

New Technical Support e-mail: avoxcs@avox.zodiac.com

New Technical Publications e-mail: avoxtechpub@avox.zodiac.com

New website address: www.avoxsys.com